SEQUENCE LISTING

```
<110> Hageman, Robert V.
      Shirley, Bret A.
      Bajwa, Kamaljit K.
<120> Stabilized FGF Formulations Containing
 Reducing Agents
<130> PP16021.002
<150> 60/229,238
<151> 2000-08-31
<160> 8
<170> FastSEQ for Windows Version 4.0
<210> 1
<211> 146
<212> PRT
<213> Homo sapiens
<400> 1
Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His
Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu
                                25
Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp
Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser
Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly
                    70
                                        75
Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Glu
                                    90
Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr
                                105
Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Ser
                            120
Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala
    130
Lys Ser
145
<210> 2
<211> 146
<212> PRT
<213> Bos taurus
<400> 2
Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His
                                    1.0
Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu
            20
                                25
```

Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Phe Glu 90 Arq Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Ser 105 Ser Trp Tyr Val Ala Leu Lys Arg Thr Gly Gln Tyr Lys Leu Gly Pro 115 120 Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala 135 Lys Ser 145

<210> 3 <211> 155 <212> PRT

<213> Homo sapiens

Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro Glu Asp Gly 10 Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu 25 Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu

55 Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn

70 75 Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys

90

Val Thr Asp Glu Cys Phe Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr 105

Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys 120

Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln Lys 135

Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser 145 150

<210> 4 <211> 155 <212> PRT <213> Bos taurus

Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro Glu Asp Gly 10 Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu 20 25

Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn 70 Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys 90 Val Thr Asp Glu Cys Phe Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr 105 Asn Thr Tyr Arg Ser Arg Lys Tyr Ser Ser Trp Tyr Val Ala Leu Lys 115 120 Arg Thr Gly Gln Tyr Lys Leu Gly Pro Lys Thr Gly Pro Gly Gln Lys 140 135 Ala Ile Leu Phe Leu Pro Met Ser Ala Lys Ser 150 <210> 5 <211> 441 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (1) ... (441) <400> 5 ccc gcc ttg ccc gag gat ggc ggc agc ggc gcc ttc ccg ccc ggc cac Pro Ala Leu Pro Glu Asp Gly Gly Ser Gly Ala Phe Pro Pro Gly His ttc aag gac ccc aag cgg ctg tac tgc aaa aac ggg ggc ttc ttc ctg 96 Phe Lys Asp Pro Lys Arg Leu Tyr Cys Lys Asn Gly Gly Phe Phe Leu cgc atc cac ccc gac ggc cga gtt gac ggg gtc cgg gag aag agc gac 144 Arg Ile His Pro Asp Gly Arg Val Asp Gly Val Arg Glu Lys Ser Asp 35 cct cac atc aag cta caa ctt caa gca gaa gag aga gga gtt gtg tct 192 Pro His Ile Lys Leu Gln Leu Gln Ala Glu Glu Arg Gly Val Val Ser 50 atc aaa gga gtg tgt gct aac cgt tac ctg gct atg aag gaa gat gga Ile Lys Gly Val Cys Ala Asn Arg Tyr Leu Ala Met Lys Glu Asp Gly 65 aga tta ctg gct tct aaa tgt gtt acg gat gag tgt ttc ttt ttt gaa 288 Arg Leu Leu Ala Ser Lys Cys Val Thr Asp Glu Cys Phe Phe Phe Glu cga ttg gaa tct aat aac tac aat act tac cgg tca agg aaa tac acc 336 Arg Leu Glu Ser Asn Asn Tyr Asn Thr Tyr Arg Ser Arg Lys Tyr Thr

105

100

agt t Ser :	rp :	tat Tyr 115	gtg Val	gca Ala	ctg Leu	aaa Lys	cga Arg 120	act Thr	ggg Gly	cag Gln	tat Tyr	aaa Lys 125	ctt Leu	gga Gly	tcc Ser	384
aaa a Lys :	aca 9 Thr 0	gga Gly	cct Pro	Gly 999	cag Gln	aaa Lys 135	gct Ala	ata Ile	ctt Leu	ttt Phe	ctt Leu 140	cca Pro	atg Met	tct Ser	gct Ala	432
aag a Lys : 145	_	tga *														441
<210> 6 <211> 441 <212> DNA <213> Bos taurus <220> <221> CDS																
<222	> (1	.)	. (44	1)												
<400 cca Pro 1	acc	cta Leu	cca Pro	gaa Glu 5	gat Asp	gly ggg	Gly 999	tcc Ser	999 Gly 10	gcc Ala	ttc Phe	cca Pro	cca Pro	999 Gly 15	cac His	48
ttc Phe	aaa Lys	gat Asp	cca Pro 20	Lys	cga Arg	cta Leu	tat Tyr	tgt Cys 25	Lys	aac Asn	gly gg9	Gly 999	ttc Phe 30	Phe	cta Leu	96
cga Arg	atc Ile	cac His 35	cca Pro	gat Asp	Gly 999	cga Arg	gta Val 40	gat Asp	Gly ggg	gta Val	cga Arg	gaa Glu 45	Lys	tcc Ser	gat Asp	144
cca Pro	cac His 50	atc Ile	aaa Lys	cta Leu	caa Glr	cta Leu 55	Gln	gcc Ala	gaa Glu	gaa Glu	cga Arg 60	Gly	gta Val	gta Val	tcc Ser	192
atc Ile 65	aaa Lys	gly ggg	gta Val	tgt Cys	gcc Ala	a Asn	cga Arg	tat Tyr	cta Leu	gcc Ala 75	Met	aaa Lys	gaa Glu	ı gat ı Asp	80 80 89	240
cga Arg	cta Leu	cta Leu	gco Ala	tco Ser 85	Lys	a tgt s Cys	gta Val	aco Thi	gat Asp 90	Glu	tgt Cys	tto Phe	tto Phe	tto Phe	gaa Glu	288
cga Arg	cta Leu	gaa Glu	tco Sei 100	Asr	aac Asi	c tat n Tyr	aac Asr	ace n Thi	r Tyr	cga Arg	a tco g Sei	c cga c Arg	a aaa g Lys 110	з Туз	tcc Ser	336
tcc Ser	tgg Trp	tat Tyr 115	gta Va.	a gco l Ala	c cta a Lei	a aaa u Lys	a cga s Arg 120	Th:	r Gly	g caa / Glr	a tat n Ty:	aaa Lys 12!	s Lei	a ggg ı Gly	g cca _/ Pro	384

aaa acc ggg cca ggg caa aaa gcc atc cta ttc cta cca atg tcc gcc Lys Thr Gly Pro Gly Gln Lys Ala Ile Leu Phe Leu Pro Met Ser Ala 130 135 140	432											
aaa tcc taa Lys Ser * 145	441											
<210> 7 <211> 474 <212> DNA <213> Homo sapiens												
<220> <221> CDS <222> (1)(468)												
<pre><400> 7 atg gca gcc ggg agc atc acc acg ctg ccc gcc ttg ccc gag gat ggc Met Ala Ala Gly Ser Ile Thr Thr Leu Pro Ala Leu Pro Glu Asp Gly 1 5 10 15</pre>	48											
ggc agc ggc gcc ttc ccg ccc ggc cac ttc aag gac ccc aag cgg ctg Gly Ser Gly Ala Phe Pro Pro Gly His Phe Lys Asp Pro Lys Arg Leu 20 25 30	96											
tac tgc aaa aac ggg ggc ttc ttc ctg cgc atc cac ccc gac ggc cga Tyr Cys Lys Asn Gly Gly Phe Phe Leu Arg Ile His Pro Asp Gly Arg 35 40 45	144											
gtt gac ggg gtc cgg gag aag agc gac cct cac atc aag cta caa ctt Val Asp Gly Val Arg Glu Lys Ser Asp Pro His Ile Lys Leu Gln Leu 50 55 60	192											
caa gca gaa gag aga gga gtt gtg tct atc aaa gga gtg tgt gct aac Gln Ala Glu Glu Arg Gly Val Val Ser Ile Lys Gly Val Cys Ala Asn 65 70 75 80	240											
cgt tac ctg gct atg aag gaa gat gga aga tta ctg gct tct aaa tgt Arg Tyr Leu Ala Met Lys Glu Asp Gly Arg Leu Leu Ala Ser Lys Cys 85 90 95	288											
gtt acg gat gag tgt ttc ttt ttt gaa cga ttg gaa tct aat aac tac Val Thr Asp Glu Cys Phe Phe Phe Glu Arg Leu Glu Ser Asn Asn Tyr 100 105 110	336											
aat act tac cgg tca agg aaa tac acc agt tgg tat gtg gca ctg aaa Asn Thr Tyr Arg Ser Arg Lys Tyr Thr Ser Trp Tyr Val Ala Leu Lys 115 120 125	384											
cga act ggg cag tat aaa ctt gga tcc aaa aca gga cct ggg cag aaa Arg Thr Gly Gln Tyr Lys Leu Gly Ser Lys Thr Gly Pro Gly Gln Lys 130 135 140	432											

	_						atg Met		_	_	agc Ser 155	tga *				468
<210> 8 <211> 468 <212> DNA <213> Bos taurus																
<220> <221> CDS <222> (1)(468)																
		gca												gaa Glu		48
														aaa Lys 30		96
														gat Asp		144
	_	_		_	_	-			_					cta Leu		192
														tgt Cys		240
	_			_			_	_					_	tcc Ser	_	288
														aac Asn 110		336
														gcc Ala		384
														ggg Gly		432
							atg Met				tcc Ser 155	taa *				468